

What is claimed is:

1. A plurality of sensors comprising:  
a first conductive material and a second compositionally  
different material formed by a process comprising:  
5 spraying a plurality of substrates, each having at least  
two conductive leads, with a suspension between the at  
least two conductive leads.
2. The plurality of sensors of claim 1, wherein the  
10 suspension is applied to the substrates with an airbrush.
3. The plurality of sensors of claim 2, wherein the  
airbrush is fitted with a nozzle that sprays in a desired  
geometry.
- 15 4. The plurality of sensors of claim 1, wherein the  
first material is selected from the group consisting of Ag,  
Au, Cu, Pt, carbon black, and AuCu, and the second material  
compositionally different than the first material is  
20 selected from the group consisting of a non-conductive  
material, a semi-conductive material, a conductive organic  
material, wherein the conductive organic material is  
selected from the group consisting of a polyaniline, an

emeraldine salt of polyaniline, a polypyrrole, a polythiophene, and a polyEDOT.

5        5.    A plurality of sensors comprising a first  
conductive material and a second compositionally different  
material formed by a process comprising:  
spraying a substrates, comprising at least 2 pair of  
conductive leads, with a suspension between the at least 2  
pair of conductive leads thereby forming at least 2  
10    sensors.